CRYSTAL CROWTH

CRYSTAL CROWTH

Patent Number:

JP62232919

Publication date:

1987-10-13

Inventor(s):

DOI KONEN; others: 02

Applicant(s):

RIKAGAKU KENKYUSHO

Requested Patent:

JP62232919

Application Number: JP19860076284 19860402

Priority Number(s):

IPC Classification:

H01L21/205; H01L21/263

EC Classification:

EC Classification:

Equivalents:

JP2652630B2

Abstract

PURPOSE:To realize ideal atomic layer epitaxy, by supplying raw material gases alternately and performing luminous radiation on a surface of a substrate crystal.

CONSTITUTION: At least two kinds of raw material gases are alternately supplied in a vapor epitaxial growth method of compound crystal, and luminous radiation is performed on a surface of a substrate crystal. Then, growth temperature is made to become low, and therefore thermal decomposing reaction of the compound in the raw material gas is suppressed, so that surface photo-chemical reaction becomes a main one. Therefore, atomic layers are made to epitaxially grow digitally one by one on the substrate crystal. Hence, ideal atomic layer epitaxy is realized.